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METHOD FOR THE RELATIVE DETERMINATION OF
PHYSICOCHEMICAL PROPERTIES

Joos et al.

Appl. No.: 10/688,137

Atty Docket: WWELL78.007C1

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$$[Ab] = \frac{[\alpha - Ab - Ab]}{[\alpha - Ab] K_{\alpha - Ab - Ab}} \quad \text{eg. (1)}$$

$$K_{Ab - Ag} = \frac{[Ag - Ab]}{[Ab][Ag]} \quad \text{eg. (2)}$$

$$= \frac{[Ag - Ab][\alpha - Ab] K_{\alpha - Ab - Ab}}{[Ag][\alpha - Ab - Ab]} \quad \text{eg. (3)}$$

$$= \frac{[Ag - Ab]}{[\alpha - Ab - Ab]} \cdot \frac{[\alpha - Ab]}{[Ag]} \cdot K_{\alpha - Ab - Ab}$$

$$= \frac{V_1}{V_2} \cdot \text{const}$$

Fig.1

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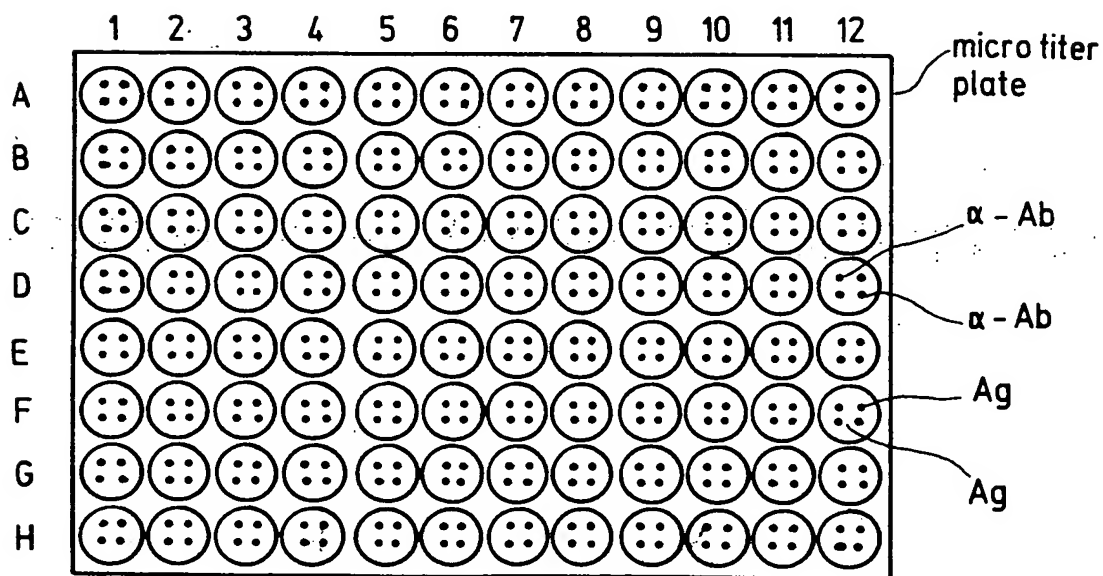
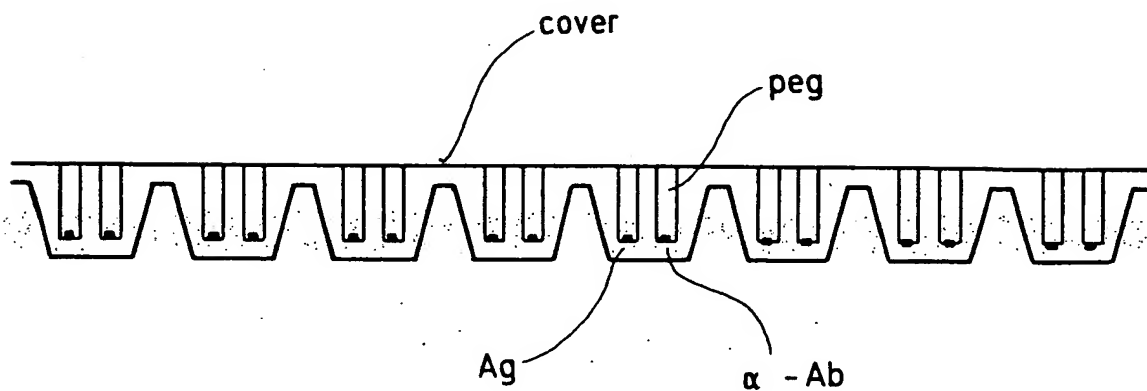


Fig.2

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Antibody	Antigen-Antibody product measured in relative integrated spot values V1	Antibody concentration, measured in relative integrated spot values V2	Relative Affinity expressed as: V1/V2	Dissoziation konstant determined with surface plasmon resonance technology (BIAcore)
1	15,4	0,67	23	86 nM
2	58,5	1,35	43,3	11 nM
3	37,2	0,25	148,8	6,3 nM
4	5,8	8,6	0,7	250 nM

Fig.3

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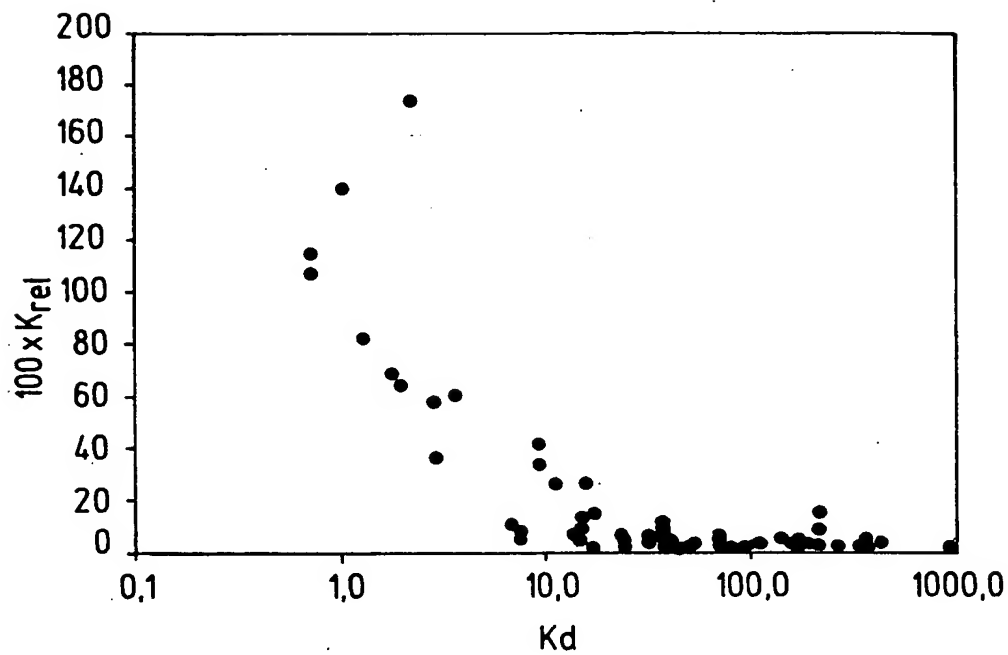


Fig.4